

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 94A, AC COIL 60HZ, 460VAC



Product designation Power contactor Product type designation **BF94**

Product type designation			DF94	
Contact characteristics				
Number of poles		Nr.	3	
Rated insulation voltage Ui IEC/EN		V	1000	
Rated impulse withstand voltage Uimp		kV	8	
Operational frequency				
	min	Hz	25	
	max	Hz	400	
IEC Conventional free air thermal current Ith		Α	115	
Operational current le				
		Α	115 95	
	MAX AC-1 (≤40°C) AC-1 (≤55°C) AC-1 (≤70°C) AC-3 (≤440V ≤55°C) AC-4 (400V) C) 230V 400V 415V 440V 500V 690V 1000V C) 230V 400V 415V 440V 500V 690V 1000V C) 230V 400V 415V 440V 500V 690V 1100V MS with 1 poles in series ≤24V 48V 75V ms with 2 poles in series			
		Α	80	
		Α	95	
	AC-4 (400V)	Α	45	
Rated operational power AC-3 (T≤55°C)				
		kW	30	
		kW	55	
D. I.	1000V	kW	37	
Rated operational current AC-3 (1≤55°C)	0001/	_		
		A	94	
ated insulation voltage Ui IEC/EN ated impulse withstand voltage Uimp perational frequency min max C Conventional free air thermal current Ith perational current le AC-1 (≤40°C AC-1 (≤55°C AC-1 (≤70°C AC-3 (≤440∨ ≤55°C AC-4 (400∨ ated operational power AC-3 (T≤55°C) 230\ 400\ 415\ 440\ 500\ 690\ 1000\ 115\ 440\ 500\ 690\ 1000\ 115\ 440\ 500\ 690\ 1000\ 115\ 690\ 100		A	78	
		A	57	
IFC may augrent to in DC1 with L/D < 1 mg with 1 males in series	1000 V	A	28	
TEC max current le in DCT with L/R \(\) This with T poles in series	<241	۸	77	
		A A	77 66	
			66 66	
		A A	66 8	
		A	0	
IEC may current to in DC1 with L/D < 1 ms with 2 poles in series	220 V	^	_	
TEC max current le in DCT with L/R > This with 2 poles in series	<0111	Α	110	
		A	110	
		A	110	
		A	90	
		A	90	
	220 V	<i>r</i> \	<u> </u>	

IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series





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	≤24V	Α	110
	48V	Α	110
	75V	Α	110
	110V	Α	93
	220V	Α	95
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	115
	48V	Α	115
	75V	Α	115
	110V	Α	110
	220V	Α	115
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	45
	48V	Α	33
	75V	Α	33
	110V	Α	3
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	65
	48V	Α	55
	75V	Α	55
	110V	Α	43
	220V	Α	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
'	≤24V	Α	86
	48V	Α	75
	75V	Α	75
	110V	Α	64
	220V	Α	64
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
·	≤24V	Α	96
	48V	Α	95
	75V	Α	95
	110V	Α	80
	220V	Α	80
Short-time allowable current for 10s (IEC/EN60947-1)		Α	640
Protection fuse			
	gG (IEC)	Α	125
	aM (IEC)	Α	100
Making capacity (RMS value)	, ,	Α	950
Breaking capacity at voltage			
	440V	Α	640
	500V	Α	625
	690V	Α	456
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)			
· · · · · · · · · · · · · · · · · · ·	Ith	W	7.9
	AC-3	W	5.4
Tightening torque for terminals			-
	min	Nm	4
	max	Nm	5
	min	Ibin	3
	max	lbin	3.7





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Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
Flexible w/o lug conductor section			
	min	mm²	1.5
	max	mm²	35
Power terminal protection according to IEC/EN 60529			IP20
Mechanical features			
Operating position			
are a military and a	normal		Vertical plan
	allowable		±30°
	anomabro		Screw / DIN rail
Fixing			35mm
Weight		g	1
Operations		9	<u> </u>
Mechanical life		cycles	15000000
Electrical life		cycles	1100000
Safety related data		Cycles	1100000
Mirror contats according to IEC/EN 609474-4-1			YES
EMC compatibility			yes
AC coil operating		\ /	400
Rated AC voltage at 60Hz		V	460
AC operating voltage			
of 60Hz coil powered at 60Hz			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	55
AC average coil consumption at 20°C			
of 60Hz coil powered at 60Hz			
	in-rush	VA	210
	holding	VA	15
Dissipation at holding ≤20°C 50Hz		W	5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us control			
in AC			
Closing NO			
	min	ms	12
	max	ms	28
Opening NO	max	1113	_0
Opening NO	min	ms	8
			22
in DC	max	ms	LL
in DC			
Closing NO			40
	min	ms	40
	max	ms	85





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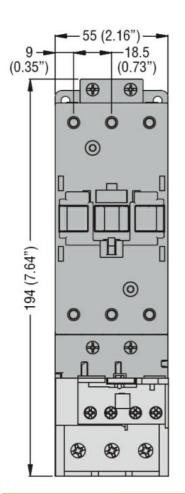
Opening NO

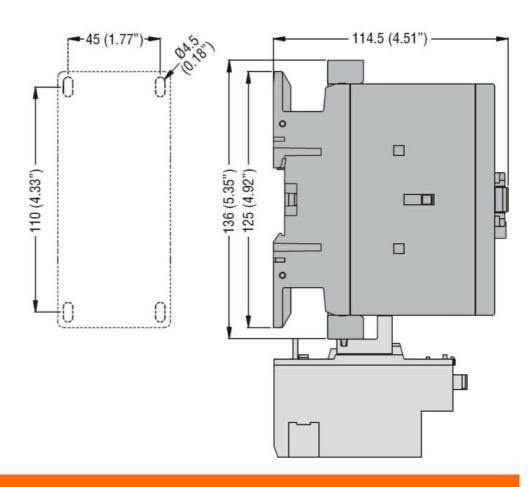
		min	ms	20
		max	ms	55
UL technical data				
Full-load current (FLA) for the	nree-phase AC motor			
		at 480V	Α	77
		at 600V	Α	77
Yielded mechanical perform	nance			_
for	three-phase AC motor			
		200/208V	HP	25
		220/230V	HP	30
		460/480V	HP	60
		575/600V	HP	75
General USE				
Cor	ntactor			
		AC current	Α	115
Short-circuit protection fuse	e, 600V			_
Hig	h fault			
		Short circuit current	kA	100
		Fuse rating	Α	200
		Fuse class		J
Sta	ndard fault			_
		Short circuit current	kA	10
		Fuse rating	Α	200
		Fuse class		RK5
Ambient conditions				
Temperature				
Оре	erating temperature			
		min	°C	-50
		max	°C	70
Sto	rage temperature	·		
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Dimensions				



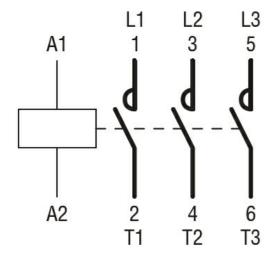
ENERGY AND AUTOMATION

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Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC



BF9400A46060

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cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching